

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:30:31 ON 28 MAY 2003

=> file pnttext

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'EUROPATFULL' ENTERED AT 14:30:49 ON 28 MAY 2003
COPYRIGHT (c) 2003 WILA Verlag Muenchen (WILA)

FILE 'PATDPAFULL' ENTERED AT 14:30:49 ON 28 MAY 2003
COPYRIGHT (C) 2003 DPMA

FILE 'PCTFULL' ENTERED AT 14:30:49 ON 28 MAY 2003
COPYRIGHT (C) 2003 Univentio

FILE 'RDISCLOSURE' ENTERED AT 14:30:49 ON 28 MAY 2003
COPYRIGHT (C) 2003 Kenneth Mason Publications Ltd.

FILE 'USPATFULL' ENTERED AT 14:30:49 ON 28 MAY 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:30:49 ON 28 MAY 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s Marx, Uwe/in
'IN' IS NOT A VALID FIELD CODE
L1 57 MARX, UWE/IN

=> s l1 and fluoropolymer# and sulfur polymer#
L2 1 L1 AND FLUOROPOLYMER# AND SULFUR POLYMER#

=> d

L2 ANSWER 1 OF 1 USPATFULL

Full Text	Citing References
-----------	-------------------

AN 2002:280743 USPATFULL
TI Polymer mixture
IN Marx, Uwe, Postbauer-Heng, GERMANY, FEDERAL REPUBLIC OF
PA NEXANS (non-U.S. corporation)
PI US 2002156192 A1 20021024
AI US 2002-67406 A1 20020207 (10)
PRAI DE 2001-108347 20010221
DT Utility
FS APPLICATION
LN.CNT 115
INCL INCLM: 525/189.000
NCL NCLM: 525/189.000
IC [7]
ICM: C08L081-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s (fluoropolymer# or ethylene-tetrafluoroethylene copolymer#) and (sulfur polymer#
L3 2174 (FLUOROPOLYMER# OR ETHYLENE-TETRAFLUOROETHYLENE COPOLYMER#) AND
(SULFUR POLYMER# OR POLYPHENYLENE SULFIDE OR PPS OR POLYSULFONE
OR PSU OR POLYETHER SULFONE OR PES)

=> s 13 and fluoropolymer# and sulfur polymer#
L4 15 L3 AND FLUOROPOLYMER# AND SULFUR POLYMER#

=> s 14 and polymer mixture#
L5 1 L4 AND POLYMER MIXTURE#

=> d

L5 ANSWER 1 OF 1 USPATFULL

Full Text	Citing References
AN 2002:280743	USPATFULL
TI	Polymer mixture
IN	Marx, Uwe, Postbauer-Heng, GERMANY, FEDERAL REPUBLIC OF
PA	NEXANS (non-U.S. corporation)
PI	US 2002156192 A1 20021024
AI	US 2002-67406 A1 20020207 (10)
PRAI	DE 2001-108347 20010221
DT	Utility
FS	APPLICATION
LN.CNT	115
INCL	INCLM: 525/189.000
NCL	NCLM: 525/189.000
IC	[7]
	ICM: C08L081-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 14 and ethylene-tetrafluoroethylene
L6 0 L4 AND ETHYLENE-TETRAFLUOROETHYLENE

=> d 14 1-15

L4 ANSWER 1 OF 15 EUROPATFULL COPYRIGHT 2003 WILA

Full Text

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN	1151486	EUROPATFULL	ED 20030527	EW 200321	FS PS
TIE	PROTECTIVE COATING FOR SEPARATORS FOR ELECTROCHEMICAL CELLS.				
TIDE	SCHUTZSCHICHT FÜR SEPARATOREN FÜR ELEKTROCHEMISCHE ZELLEN.				
TIFR	RETEMENT PROTECTEUR DESTINE A DES SEPARATEURS POUR CELLULES ELECTROCHIMIQUES.				
IN	YING, Qicong, 600 North Pantano Road, Tucson, AZ 85710, US;				
	CARLSON, Steven, A., 993 Memorial Drive 101, Cambridge, MA 02138, US;				
	SKOTHEIM, Terje, A., 7080 N. Cathedral Rock Place, Tucson, AZ 85718, US				
PA	Moltech Corporation, 9062 South Rita Road, Tucson, AZ 85747, US				
SO	Wila-EPS-2003-H21-T2				
DS	R DE; R FR; R GB; R IT				
PIT	EPB1 EUROPAEISCHE PATENTSCHRIFT (Internationale Anmeldung)				
PI	EP 1151486	B1	20030521		
OD			20011107		
AI	EP 1999-966420		19991216		
PRAI	US 1998-215029		19981217		
	US 1999-399967		19990921		
	US 1999-447901		19991123		
RLI	WO 99-US30214	991216	INTAKZ		
	WO 00036671	000622	INTPNR		
REP	EP 836238	A	WO 99-33125	A	
	US 5314765	A	US 5549989	A	
	US 5648187	A			
IC	ICM H01M002-16				
	ICS H01M010-40	B01D071-02			

L4 ANSWER 2 OF 15 PCTFULL COPYRIGHT 2003 Univentio

Full
Text

AN 2000036671 PCTFULL ED 20020515
 TIEN PROTECTIVE COATING FOR SEPARATORS FOR ELECTROCHEMICAL CELLS
 TIFR REVETEMENT PROTECTEUR DESTINE A DES SEPARATEURS POUR CELLULES
 ELECTROCHIMIQUES
 IN YING, Qicong;
 CARLSON, Steven, A.;
 SKOTHEIM, Terje, A.
 PA MOLTECH CORPORATION;
 YING, Qicong;
 CARLSON, Steven, A.;
 SKOTHEIM, Terje, A.
 LA English
 DT Patent
 PI WO 2000036671 A1 20000622
 DS W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE
 ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD
 SE SG SI SK SL TJ TM TR TT TZ UA UG US US US UZ VN YU ZA ZW
 GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM
 AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
 CF CG CI CM GA GN GW ML MR NE SN TD TG
 AI WO 1999-US30214 A 19991216
 PRAI US 1998-09/215,029 19981217
 US 1999-09/399,967 19990921
 US 1999-09/447,901 19991123
 ICM H01M002-16
 ICS H01M010-40; B01D071-02

L4 ANSWER 3 OF 15 PCTFULL COPYRIGHT 2003 Univentio

Full
Text

AN 2000036670 PCTFULL ED 20020515
 TIEN PROTECTIVE COATING FOR SEPARATORS FOR ELECTROCHEMICAL CELLS
 TIFR REVETEMENT DE PROTECTION DE SEPARATEURS POUR CELLULES ELECTROCHIMIQUES
 IN YING, Qicong;
 CARLSON, Steven, A.;
 SKOTHEIM, Terje, A.
 PA MOLTECH CORPORATION;
 YING, Qicong;
 CARLSON, Steven, A.;
 SKOTHEIM, Terje, A.
 LA English
 DT Patent
 PI WO 2000036670 A1 20000622
 DS W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM
 EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
 LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU
 SD SE SG SI SK SL TJ TM TR TT TZ UA UG US US US UZ VN YU ZA
 ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ
 TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF
 BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
 AI WO 1999-US30136 A 19991216
 PRAI US 1998-09/215,029 19981217
 US 1999-09/399,967 19990921
 US 1999-09/447,901 19991123
 ICM H01M002-16
 ICS H01M010-40; B01D071-02

L4 ANSWER 4 OF 15 PCTFULL COPYRIGHT 2003 Univentio

Full
Text

AN 1999033125 PCTFULL ED 20020515
 TIEN SEPARATORS FOR ELECTROCHEMICAL CELLS
 TIFR SEPARATEURS POUR CELLULES ELECTROCHIMIQUES
 IN CARLSON, Steven, A.;
 DENG, Zhongyi;
 YING, Qicong;
 SKOTHEIM, Terje, A.
 PA MOLTECH CORPORATION;
 CARLSON, Steven, A.;
 DENG, Zhongyi;
 YING, Qicong;
 SKOTHEIM, Terje, A.
 LA English
 DT Patent
 PI WO 9933125 A1 19990701
 DS W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI
 GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
 LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI
 SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ
 UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR
 NE SN TD TG
 AI WO 1998-US26913 A 19981217
 PRAI US 1997-08/995,089 19971219
 ICM H01M002-16
 ICS H01M006-14; H01M010-40; H01M010-36; B01D071-02

L4 ANSWER 5 OF 15 USPATFULL

Full
Text

Citing
References

AN 2002:280743 USPATFULL
 TI Polymer mixture
 IN Marx, Uwe, Postbauer-Heng, GERMANY, FEDERAL REPUBLIC OF
 PA NEXANS (non-U.S. corporation)
 PI US 2002156192 A1 20021024
 AI US 2002-67406 A1 20020207 (10)
 PRAI DE 2001-108347 20010221
 DT Utility
 FS APPLICATION
 LN.CNT 115
 INCL INCLM: 525/189.000
 NCL NCLM: 525/189.000
 IC [7]
 ICM: C08L081-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 15 USPATFULL

Full
Text

Citing
References

AN 2002:176392 USPATFULL
 TI Separators for electrochemical cells
 IN Carlson, Steven A., Cambridge, MA, UNITED STATES
 Ying, Qicong, Tucson, AZ, UNITED STATES
 Deng, Zhongyi, Tucson, AZ, UNITED STATES
 Skotheim, Terje A., Tucson, AZ, UNITED STATES
 PI US 2002092155 A1 20020718
 AI US 2001-40651 A1 20011022 (10)
 RLI Continuation of Ser. No. US 1998-215112, filed on 17 Dec 1998, PATENTED
 Continuation-in-part of Ser. No. US 1997-995089, filed on 19 Dec 1997,
 PATENTED
 DT Utility
 FS APPLICATION

LN.CNT 1915
 INCL INCLM: 029/623.500
 INCLS: 429/247.000; 429/251.000; 427/126.400
 NCL NCLM: 029/623.500
 NCLS: 429/247.000; 429/251.000; 427/126.400
 IC [7]
 ICM: H01M010-04
 ICS: H01M002-16; B05D005-12
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 15 USPATFULL

	Full Text	Citing References
AN	2002:152340	USPATFULL
TI	Method of making separators for electrochemical cells comprising a microporous pseudo-boehmite layer	
IN	Ying, Qicong, Tucson, AZ, United States Carlson, Steven A., Cambridge, MA, United States Skotheim, Terje A., Tucson, AZ, United States	
PA	Moltech Corporation, Tucson, AZ, United States (U.S. corporation)	
PI	US 6410182	B1 20020625
AI	US 2000-641539	20000818 (9)
RLI	Division of Ser. No. <u>US 1998-215029</u> , filed on 17 Dec 1998, now patented, Pat. No. <u>US 6194098</u>	
DT	Utility	
FS	GRANTED	
LN.CNT	2008	
INCL	INCLM: 429/129.000 INCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/300.000; 429/304.000	
NCL	NCLM: 429/129.000 NCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/300.000; 429/304.000	
IC	[7] ICM: H01M002-14 ICS: H01M002-16	
EXF	429/129; 429/144; 429/247; 429/249; 429/251; 429/300; 429/304	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 8 OF 15 USPATFULL

	Full Text	Citing References
AN	2001:233247	USPATFULL
TI	Protective coating for separators for electrochemical cells	
IN	Ying, Qicong, Tucson, AZ, United States Carlson, Steven A., Cambridge, MA, United States Skotheim, Terje A., Tucson, AZ, United States	
PI	US 2001053475	A1 20011220
AI	US 2001-898884	A1 20010702 (9)
RLI	Division of Ser. No. <u>US 1999-447901</u> , filed on 23 Nov 1999, GRANTED, Pat. No. <u>US 6277514</u> Continuation-in-part of Ser. No. <u>US 1999-399967</u> , filed on 21 Sep 1999, GRANTED, Pat. No. <u>US 6183901</u> Continuation-in-part of Ser. No. <u>US 1998-215029</u> , filed on 17 Dec 1998, GRANTED, Pat. No. <u>US 6194098</u>	
DT	Utility	
FS	APPLICATION	
LN.CNT	2435	
INCL	INCLM: 429/137.000 INCLS: 429/246.000; 429/212.000; 427/126.300; 427/126.400	
NCL	NCLM: 429/137.000 NCLS: 429/246.000; 429/212.000; 427/126.300; 427/126.400	
IC	[7] ICM: H01M002-16 ICS: B05D005-12	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 9 OF 15 USPATFULL

Full Text	Citing References
-----------	-------------------

AN 2001:184986 USPATFULL
 TI Separators for electrochemical cells
 IN Carlson, Steven A., Cambridge, MA, United States
 Ying, Qicong, Tucson, AZ, United States
 Deng, Zhongyi, Tucson, AZ, United States
 Skotheim, Terje A., Tucson, AZ, United States
 PA Moltech Corporation, Tucson, AZ, United States (U.S. corporation)
 PI US 6306545 B1 20011023
 AI US 1998-215112 19981217 (9)
 RLI Continuation-in-part of Ser. No. US 1997-995089, filed on 19 Dec 1997, now patented, Pat. No. US 6153337
 DT Utility
 FS GRANTED
 LN.CNT 1957
 INCL INCLM: 429/247.000
 INCLS: 429/251.000; 501/153.000
 NCL NCLM: 429/247.000
 NCLS: 429/251.000; 501/153.000
 IC [7]
 ICM: H01M002-16
 ICS: C04B035-10
 EXF 429/247; 429/251; 501/153
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 15 USPATFULL

Full Text	Citing References
-----------	-------------------

AN 2001:136320 USPATFULL
 TI Protective coating for separators for electrochemical cells
 IN Ying, Qicong, Tucson, AZ, United States
 Carlson, Steven A., Cambridge, MA, United States
 Skotheim, Terje A., Tucson, AZ, United States
 PA Moltech Corporation, Tucson, AZ, United States (U.S. corporation)
 PI US 6277514 B1 20010821
 AI US 1999-447901 19991123 (9)
 RLI Continuation-in-part of Ser. No. US 1999-399967, filed on 21 Sep 1999, now patented, Pat. No. US 6183901 Continuation-in-part of Ser. No. US 1998-215029, filed on 17 Dec 1998, now patented, Pat. No. US 6194098
 DT Utility
 FS GRANTED
 LN.CNT 2264
 INCL INCLM: 429/129.000
 INCLS: 429/144.000; 429/247.000; 429/249.000; 429/250.000; 429/251.000; 429/218.100; 429/231.100; 429/231.400; 429/300.000; 429/304.000
 NCL NCLM: 429/129.000
 NCLS: 429/144.000; 429/218.100; 429/231.100; 429/231.400; 429/247.000; 429/249.000; 429/250.000; 429/251.000; 429/300.000; 429/304.000
 IC [7]
 ICM: H01M002-14
 EXF 429/129; 429/144; 429/247; 429/249; 429/250; 429/251; 429/218.1; 429/231.1; 429/231.4; 429/300; 429/304
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 15 USPATFULL

Full Text	Citing References
-----------	-------------------

AN 2001:88350 USPATFULL
 TI Protective coating for separators for electrochemical cells
 IN Ying, Qicong, Tucson, AZ, United States
 Carlson, Steven A., Cambridge, MA, United States

Skotheim, Terje A., Tucson, AZ, United States
 PI US 2001000485 A1 20010426
 US 6423444 B2 20020723
 AI US 2000-727160 A1 20001130 (9)
 RLI Division of Ser. No. US 1999-399967, filed on 21 Sep 1999, GRANTED, Pat.
 No. US 6183901 Continuation-in-part of Ser. No. US 1998-215029, filed on
 17 Dec 1998, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2242
 INCL INCLM: 429/228.000
 INCLS: 429/054.000; 429/302.000; 429/204.000; 429/247.000; 205/063.000
 NCL NCLM: 429/129.000
 NCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/304.000
 IC [7]
 ICM: H01M002-14
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 15 USPATFULL

	Full Text	Citing References
AN	2001:29251	USPATFULL
TI	Protective coating for separators for electrochemical cells	
IN	Ying, Qicong, Tucson, AZ, United States Carlson, Steven A., Cambridge, MA, United States Skotheim, Terje A., Tucson, AZ, United States	
PA	Moltech Corporation, Tucson, AZ, United States (U.S. corporation)	
PI	US 6194098	B1 20010227
AI	US 1998-215029	19981217 (9)
DT	Utility	
FS	Granted	
LN.CNT	2159	
INCL	INCLM: 429/129.000 INCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/218.100; 429/231.100; 429/231.400; 429/231.950; 429/300.000; 429/304.000	
NCL	NCLM: 429/129.000 NCLS: 429/144.000; 429/218.100; 429/231.100; 429/231.400; 429/231.950; 429/247.000; 429/249.000; 429/251.000; 429/300.000; 429/304.000	
IC	[7] ICM: H01M002-14 ICS: H01M002-16	
EXF	429/247; 429/248; 429/249; 429/250; 429/251; 429/131; 429/142; 429/144; 429/145; 429/218.1; 429/231.1; 429/231.4; 429/231.95; 429/300; 429/304	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 13 OF 15 USPATFULL

	Full Text	Citing References
AN	2001:18149	USPATFULL
TI	Protective coating for separators for electrochemical cells	
IN	Ying, Qicong, Tucson, AZ, United States Carlson, Steven A., Cambridge, MA, United States Skotheim, Terje A., Tucson, AZ, United States	
PA	Moltech Corporation, Tucson, AR, United States (U.S. corporation)	
PI	US 6183901	B1 20010206
AI	US 1999-399967	19990921 (9)
RLI	Continuation-in-part of Ser. No. US 1998-215029, filed on 17 Dec 1998	
DT	Utility	
FS	Granted	
LN.CNT	2065	
INCL	INCLM: 429/129.000 INCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/218.100; 429/231.100; 429/231.400; 429/231.950; 429/300.000; 429/304.000	
NCL	NCLM: 429/129.000	

NCLS: 429/144.000; 429/218.100; 429/231.100; 429/231.400; 429/231.950;
429/247.000; 429/249.000; 429/251.000; 429/300.000; 429/304.000
IC [7]
ICM: H01M002-14
ICS: H01M002-16
EXF 429/247; 429/248; 429/249; 429/250; 429/251; 429/131; 429/142; 429/144;
429/145; 429/218.1; 429/231.1; 429/231.4; 429/231.95; 429/300; 429/304
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 14 OF 15 USPATFULL

	Full Text	Citing References
AN	2000:160734 USPATFULL	
TI	Separators for electrochemical cells	
IN	Carlson, Steven A., Cambridge, MA, United States Deng, Zhongyi, Tucson, AZ, United States Ying, Qicong, Tucson, AZ, United States Skotheim, Terje A., Tucson, AZ, United States	
PA	Moltech Corporation, Tucson, AZ, United States (U.S. corporation)	
PI	US 6153337	20001128
AI	US 1997-995089	19971219 (8)
DT	Utility	
FS	Granted	
LN.CNT	1584	
INCL	INCLM: 429/247.000 INCLS: 429/251.000; 501/153.000; 427/126.400	
NCL	NCLM: 429/247.000 NCLS: 427/126.400; 429/251.000; 501/153.000	
IC	[7] ICM: H01M002-16	
EXF	429/142; 429/247; 429/251; 501/153; 427/126.4	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 15 OF 15 USPAT2

	Full Text	Citing References
AN	2001:88350 USPAT2	
TI	Methods of making separators for electrochemical cells comprising pseudo-boehmite layers and a protective coating layer	
IN	Ying, Qicong, Tucson, AZ, United States Carlson, Steven A., Cambridge, MA, United States Skotheim, Terje A., Tucson, AZ, United States	
PA	Moltech Corporation, Tucson, AR, United States (U.S. corporation)	
PI	US 6423444	B2 20020723
AI	US 2000-727160	20001130 (9)
RLI	Division of Ser. No. US 1999-399967, filed on 21 Sep 1999, now patented, Pat. No. US 6183901 Continuation-in-part of Ser. No. US 1998-215029, filed on 17 Dec 1998, now patented, Pat. No. US 6194098	
DT	Utility	
FS	GRANTED	
LN.CNT	2149	
INCL	INCLM: 429/129.000 INCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/304.000	
NCL	NCLM: 429/129.000 NCLS: 429/144.000; 429/247.000; 429/249.000; 429/251.000; 429/304.000	
IC	[7] ICM: H01M002-14	
EXF	429/129; 429/144; 429/247; 429/249; 429/251; 429/304	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=>